MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "FG623" Aluminum Window Wall System (2-Bay wide)-S. M. Impact

APPROVAL DOCUMENT: Drawing No. **1581Rev A,** titled "FG623 Window wall system (S.M.I.)", sheets 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 03/04/08 and last revised on OCT 07, 2011, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

Limitations:

1. See Design Pressure (DP) rating Vs glass options, in sheet 1. When units are installed into Wood or Metal stud, the Max DP not to exceed +/-70 PSF for both glass options A &B.
2. Exterior glazing gasket items #19 and interior glazing gasket item # 20 are TREMCO part # (s) TR-4014P & TR-6122P, respectively, made of Peroxide EPDM.
3. Concrete screw type (E), when used shall have a min Fy = 126,000 psi and Fu = 158,000 psi.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 08-0415.10** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

1/12/12

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections. (transferred from file # **08-0415.10)**
2. Drawing No. **1581 Rev A,** titled "FG623 Window wall system (S.M.I.)", sheets 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 03/04/08 and last revised on OCT 07, 2011, signed and sealed by Warren W. Schaefer, P. E.

B. TESTS (transferred from file # **02-1003.01/ # 08-0415.10)** original test conducted per SFBC PA 201, 202 and 203-94, now known as FBC TAS 201, 202 & 203-94)

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Small Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of Aluminum window wall system, prepared by Hurricane Testing Laboratory Inc, Test Report No. (s) **HTL-0049-0807-01 (specimen #8 & #9)**, dated 02/06/02, **HTL-0049-0610-00 (Sp# 2& 3)** and **HTL-0049-0615-00 (Sp # 2)**, both dated 02/06/02, all signed & sealed by Vinu J. Abraham, P.E.
(Note: The above test reports have been revised by addendum letters, issued by Hurricane Testing lab, dated Jan 17 and Jan 24, 2003, signed & sealed by Vinu J. Abraham, P.E.)

C. CALCULATIONS

1. Anchor verification calculations, complying with FBC 2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 10/06/11, signed and sealed by Warren W. Schaefer, P.E.
2. Anchor verification calculations, complying with FBC-2007, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 02/29/2008, signed and sealed by Warren W. Schaefer, P.E. (transferred from file # **08-0415.10)**
3. Statement letter dated Jan 02, 2008 of yield & ultimate strength of Tapcon, issued by ITW Red Head, engineering department, signed by Mark Timmerman, Senior Product Engineer.
4. Glazing complies w/ ASTME-1300-02 & -04

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0325.05** issued to Solutia Inc. for "Saflex clear & color interlayer", expiring on 05/21/16.
2. Notice of Acceptance No. **11-0624.01** issued to "E.I. DuPont Denemours" for "DuPont Butacite ® PVB", expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance to FBC 2007 and FBC 2010 & "No financial interest", prepared by W. W. Schaefer Engineering & Consulting, P.A., both dated OCT 06, 2011, signed and sealed by Warren W. Schaefer, P.E.
2. Statement of Lab compliance, as part of above referenced test report.

G. OTHER

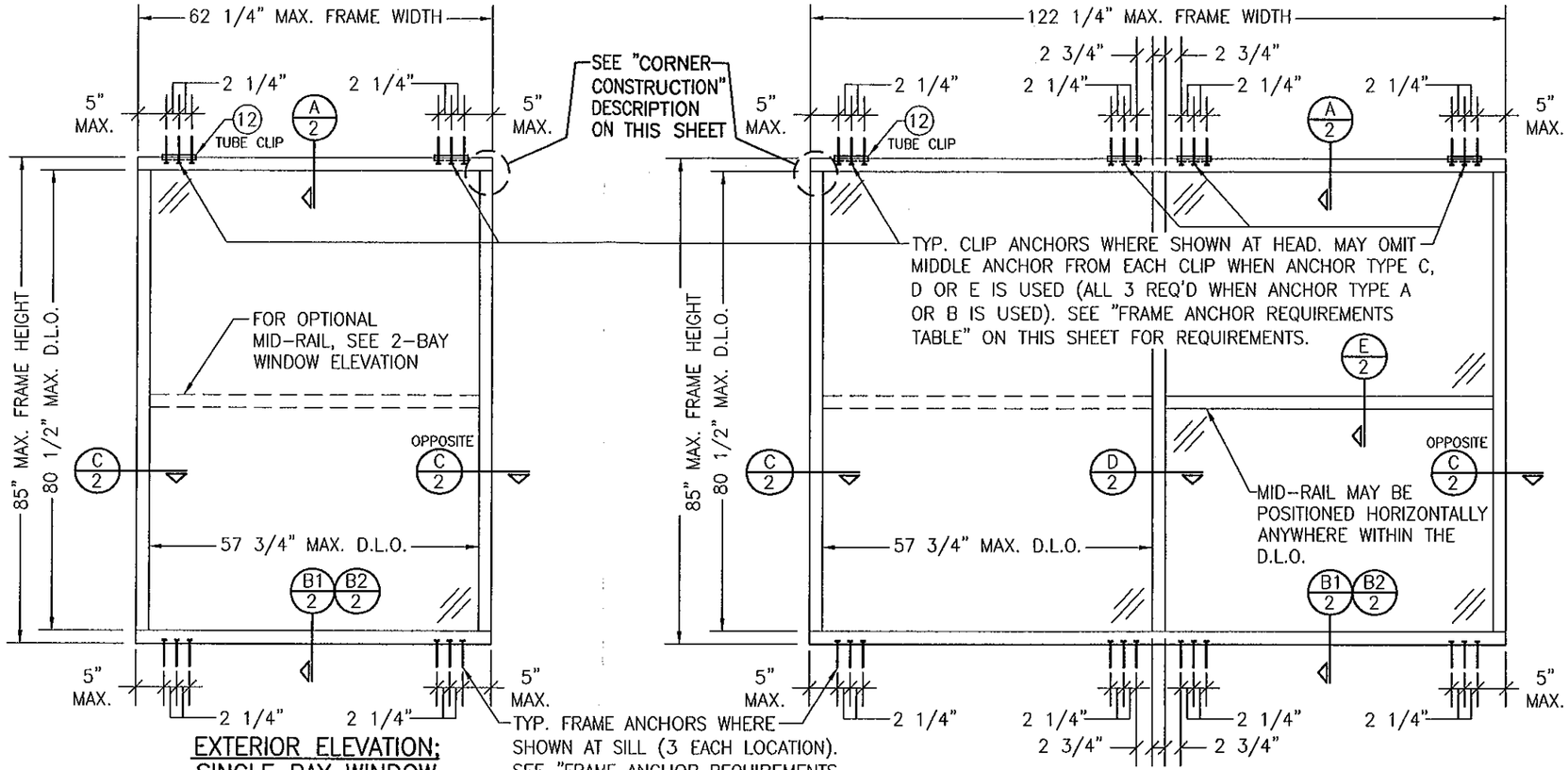
1. This NOA **revises** NOA **#08-0415.10**, expiring on 02/20/2013.
2. Test proposal dated 08/03/2009 approved by BCCO

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 11-1027.10
Expiration Date: February 20, 2013
Approval Date: January 19, 2012

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. WHEN GLAZED FOR SMALL MISSILE IMPACT, THESE DOORS MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.



EXTERIOR ELEVATION;
SINGLE BAY WINDOW
SCALE: 1/2" = 1'-0"

EXTERIOR ELEVATION;
2-BAY WINDOW
SCALE: 1/2" = 1'-0"

CORNER CONSTRUCTION:

FRAME CORNER: HEAD AND SILL MEMBERS RUN THROUGH AND ARE SQUARE CUT, BUTTED TO VERTICAL MEMBERS, FASTENED WITH FOUR(4) NO. 12 X 1 1/2" S.S. PHTFS FASTENERS THROUGH THE HEAD/SILL MEMBER INTO THE VERTICAL MEMBERS SCREW SPLINES & SEALED WITH SILICONE.
MID-RAIL END: MID-RAIL IS SQUARE CUT, BUTTED TO VERTICAL MEMBERS, FASTENED WITH THREE(3) NO. 10 X 1 19/32" S.S. PHTFS FASTENERS THROUGH THE VERTICAL MEMBERS INTO THE MID-RAIL SHEAR BLOCK SCREW SPLINES & SEALED WITH SILICONE.

FRAME ANCHOR REQUIREMENTS TABLE

ANCHOR TYPE	FRAME/CLIP SCREWS: OPENING TYPE (SUBSTRATE)	FRAME & CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	3/4"
B	MIN. 16 GA. 33 KSI METAL STUD	(2) 1/4-20 OR 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
C	MIN. 1/8" THICK A36 STEEL	(2) 1/4-20 OR 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
D	MIN. 0.115" THK 6063-T6 ALUM.	(2) 1/4-20 OR 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
E	3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
(2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORRISION RESISTANT STEEL

(1) ALLOWABLE DESIGN PRESSURE (SINGLE & 2-BAY WINDOWS)	
GLASS A	+70/-90 PSF
GLASS B	+/-70 PSF
SEE GLAZING DETAILS FOR GLASS TYPES	

(1) ALLOWABLE DESIGN PRESSURE SHALL NOT EXCEED +/-70 PSF WHEN WOOD OR METAL STUD SUBSTRATES EXIST.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 11-10'27.11
Expiration Date 01/20/13
By Ishaq I. Chawla
Miami-Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

CERTIFICATION
OCT 07 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

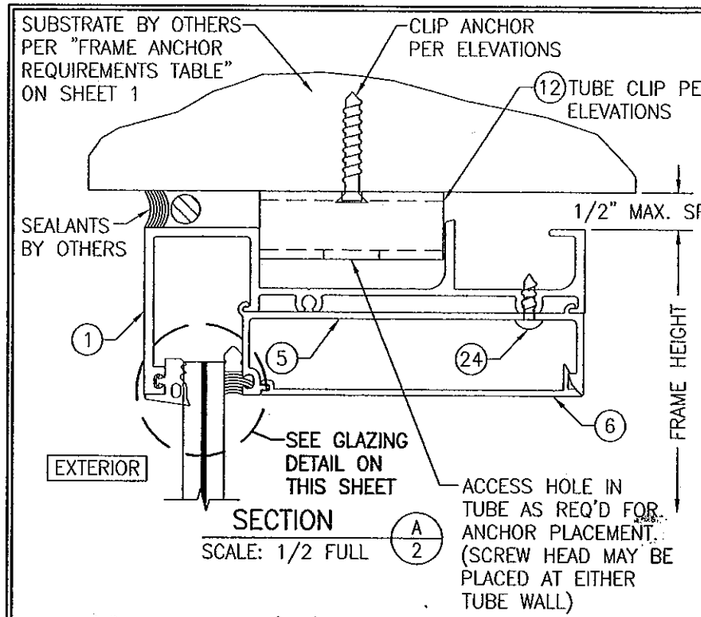
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS	W.W.S.	10/06/11

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 03/04/08

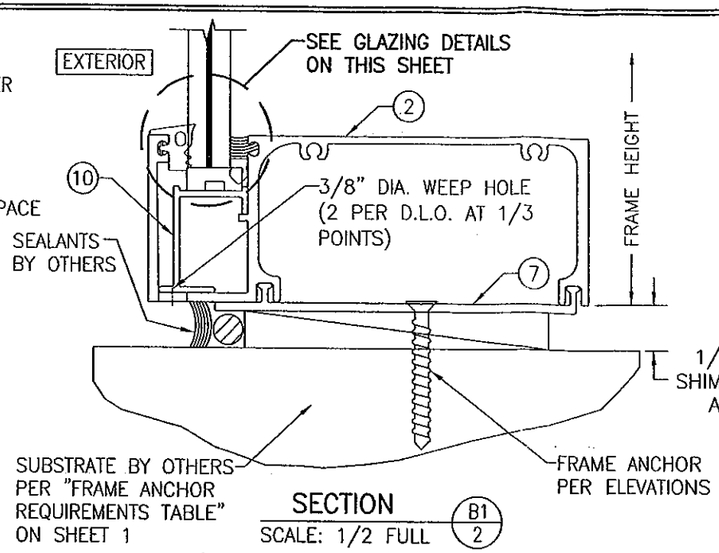
DRAWING TITLE: FG623 WINDOW WALL SYSTEM (S.M.I.)
MANUFACTURER: KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING NO. 1581 | REV. A
SHEET NO. 1 OF 3



SECTION A/2
SCALE: 1/2 FULL



SECTION B1/2
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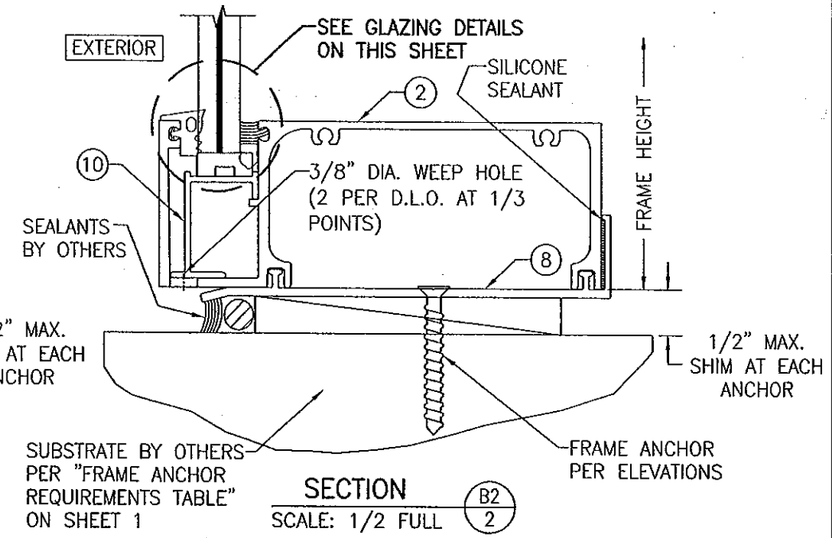
(SILL ANCHOR FLAT RAIL CONDITION)



SECTION B2/2
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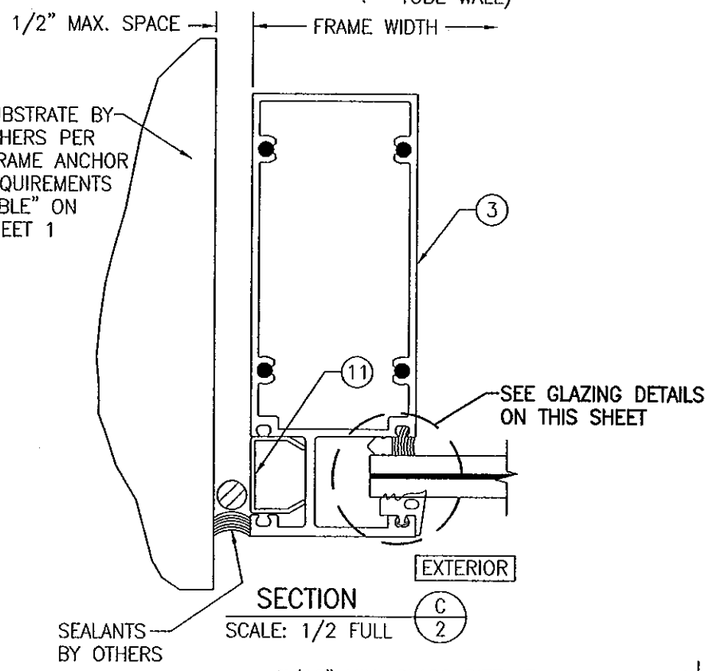
(SILL ANCHOR BENT RAIL CONDITION)



SECTION C/2
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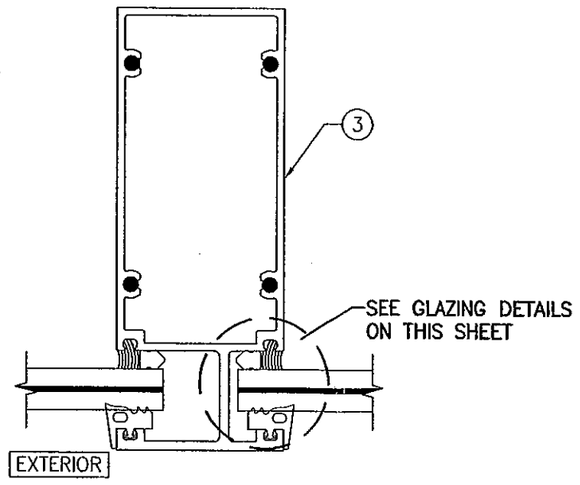

SECTION D/2
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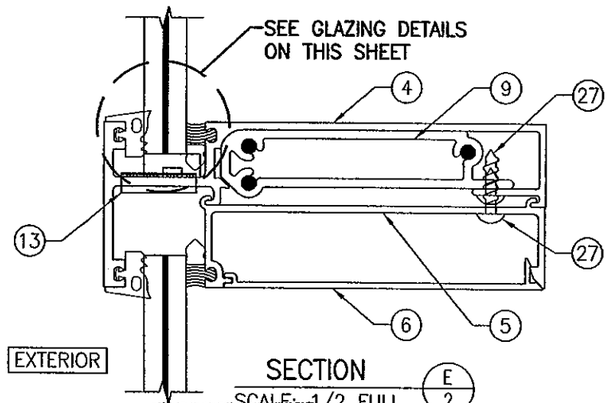
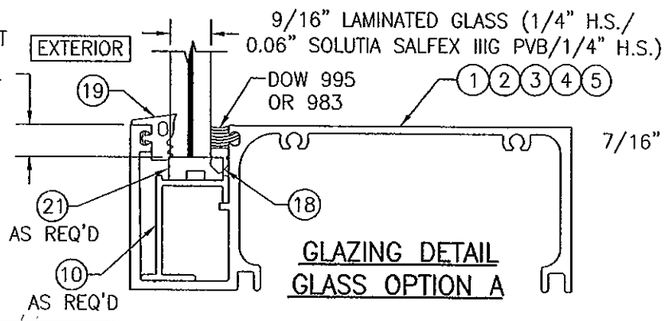
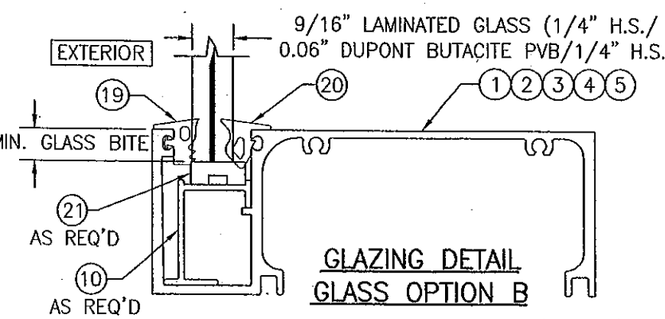


SECTION E/2
SCALE: 1/2 FULL

PRODUCT APPROVED
as complying with the Florida Building Code
Application No. 11-1027.11
Expiration Date 02/20/13
By Chas L. Chandler
Miami-Dade Product Control



GLAZING DETAIL GLASS OPTION A



GLAZING DETAIL GLASS OPTION B

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/04/08

NO.	REVISION DESCRIPTION	BY	DATE

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

DRAWING TITLE
FG623 WINDOW WALL SYSTEM (S.M.I.)

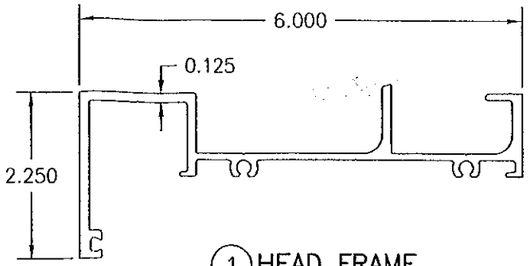
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
OCT 07 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

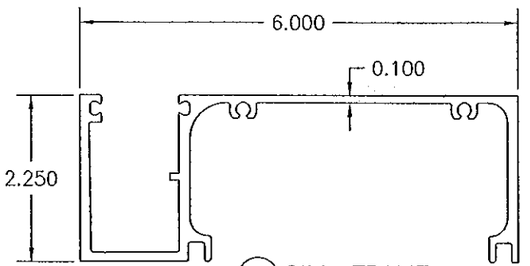
DRAWING NO.	REV.
1581	A

SHEET NO.
2 OF 3

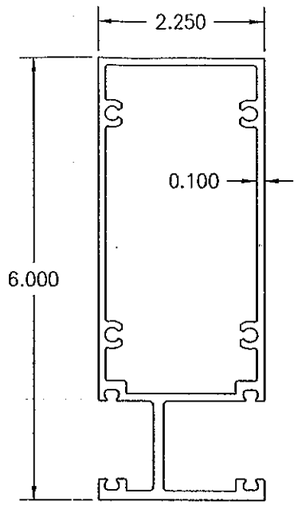
ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
		PARTS	
1	623-105	HEAD FRAME	6063-T6 ALUMINUM
2	623-113	SILL FRAME	6063-T6 ALUMINUM
3	623-107	SIDE JAMB/MULLION	6063-T6 ALUMINUM
4	623-103	MID-RAIL	6063-T6 ALUMINUM
5	623-104	GLASS STOP	6063-T6 ALUMINUM
6	623-111	GLASS STOP FILLER	6063-T6 ALUMINUM
7	623-110	SILL ANCHOR FLAT RAIL	6063-T6 ALUMINUM
8	804-171	SILL ANCHOR BENT RAIL	6063-T6 ALUMINUM
9	623-409	SHEAR BLOCK	6063-T6 ALUMINUM
10	623-402	SETTING BLOCK CHAIR	6063-T6 ALUMINUM
11	623-112	JAMB POCKET FILLER	6063-T6 ALUMINUM
12	623-406	TUBE CLIP	6063-T6 ALUMINUM
13	175-313	WATER DEFLECTOR	RIGID PVC
		SEALS AND SEALANTS	
18	127-038	WEDGE GASKET	SCR-900
19	027-850	EXTERIOR GLAZING FIXED GASKET	EPDM (DUROMETER 60+/-5)
20	127-028	INTERIOR GLAZING FIXED GASKET	EPDM (DUROMETER 70+/-5)
21	027-017	SETTING BLOCK AS REQ'D	EPDM
22	68-605	SIDE BLOCK (USED WITH GLASS TYPE B)	EPDM
23	422-434	W BLOCK (USED WITH GLASS TYPE B)	EPDM
		MISCELLANEOUS FASTENERS	
27	-	NO. 10 X 5/8" PHTFS S.S SCREW	WITHIN 6" OF ENDS & 18" MAX. O.C.



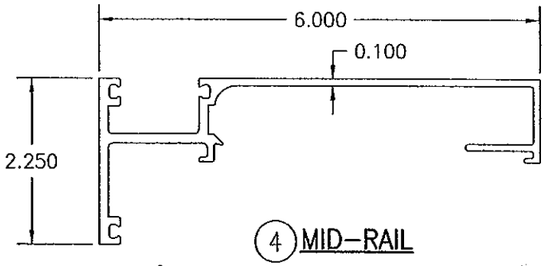
1 HEAD FRAME



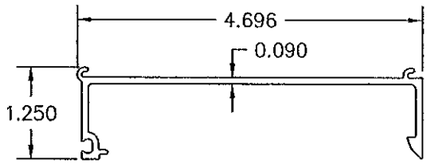
2 SILL FRAME



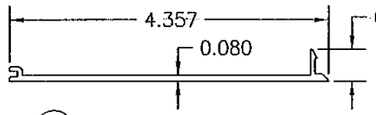
3 SIDE JAMB/MULLION



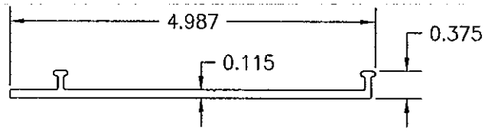
4 MID-RAIL



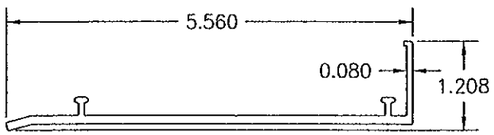
5 GLASS STOP



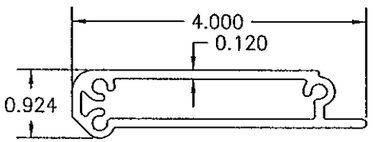
6 GLASS STOP FILLER



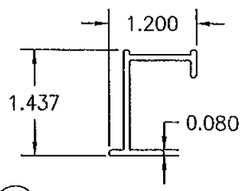
7 SILL ANCHOR FLAT RAIL



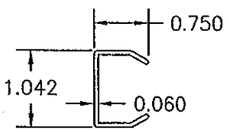
8 SILL ANCHOR BENT RAIL



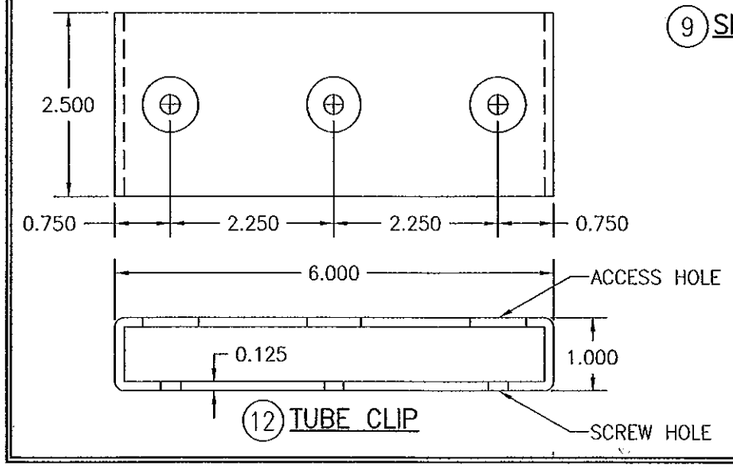
9 SHEAR BLOCK



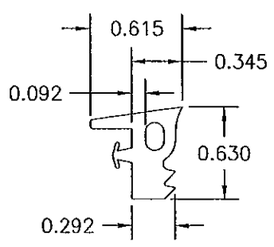
10 SETTING BLOCK CHAIR



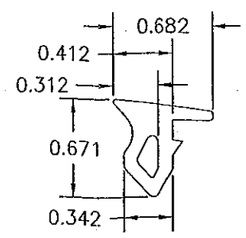
11 JAMB POCKET FILLER



12 TUBE CLIP

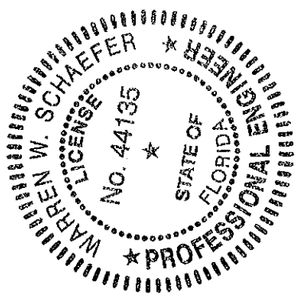


19 EXTERIOR GLAZING FIXED GASKET



20 INTERIOR GLAZING FIXED GASKET

PRODUCT REVISED
In complying with the Florida Building Code
Acceptance No. 11-1027.11
Expiration Date 02/20/2013
By Chris L. Lamb
Miami-Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/04/08

NO.	REVISION DESCRIPTION	BY	DATE

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

(S.M.I.)

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING TITLE
FG623 WINDOW WALL SYSTEM (S.M.I.)

CERTIFICATION
OCT 07 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1581 | REV. A
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